

Magnet Project API Documentation

Route Authentication & Role Protection Summary

Module	Route/Action	Public	Auth Required	Role(s) Required
Products	GET /api/products	No	Yes	Any authenticated user
	GET /api/products/:id	No	Yes	Any authenticated user
	POST /api/products/addProductsByBusiness	No	Yes	business
	POST /api/products/addProductsByMagnet_employee	No	Yes	magnet_employee, admin
	PUT /api/products/:id	No	Yes	business (own), admin, magnet_employee
	DELETE /api/products/:id	No	Yes	business (own), admin, magnet_employee
	PUT /api/products/:id/approve	No	Yes	admin, magnet_employee
	PUT /api/products/:id/decline	No	Yes	admin, magnet_employee
Categories	GET /api/categories	Yes	No	None
	POST /api/categories	No	Yes	business, admin, magnet_employee
	PUT /api/categories/:id	No	Yes	business (own), admin, magnet_employee
	DELETE /api/categories/:id	No	Yes	business (own), admin, magnet_employee
Orders	GET /api/orders/status-options	Yes	No	None
	POST /api/orders	No	Yes	customer
	GET /api/orders/my	No	Yes	customer
	GET /api/orders/business-products	No	Yes	business

Module	Route/Action	Public	Auth Required	Role(s) Required
	GET /api/orders/:id	No	Yes	admin, magnet_employee, customer (own)
	GET /api/orders	No	Yes	admin, magnet_employee
	PUT /api/orders/:id/status	No	Yes	admin, magnet_employee
Reviews	POST /api/reviews/products/:id/reviews	No	Yes	customer
	GET /api/reviews/products/:id/reviews	Yes	No	None
	GET /api/reviews/business-products-reviews	No	Yes	business
	DELETE /api/reviews/:id	No	Yes	admin, magnet_employee
Wishlist	GET /api/wishlist	No	Yes	customer
	POST /api/wishlist	No	Yes	customer
	DELETE /api/wishlist/:productId	No	Yes	customer
Address	GET /api/addresses	No	Yes	customer
	POST /api/addresses	No	Yes	customer
	PUT /api/addresses/:id	No	Yes	customer
	DELETE /api/addresses/:id	No	Yes	customer
User	GET /api/user/profile	No	Yes	customer
	PUT /api/user/profile	No	Yes	customer
	GET /api/user/business-requests	No	Yes	admin, magnet_employee
	POST /api/user/business-approval	No	Yes	admin, magnet_employee
	GET /api/user/business/:businessId	No	Yes	admin, magnet_employee
	GET /api/user/business-profile	No	Yes	business, admin, magnet_employee
Admin	POST /api/admin/users	No	Yes	admin
	GET /api/admin/users	No	Yes	admin
	GET /api/admin/users/stats	No	Yes	admin

Module	Route/Action	Public	Auth Required	Role(s) Required
	GET /api/admin/users/:id	No	Yes	admin
	PUT /api/admin/users/:id	No	Yes	admin
	DELETE /api/admin/users/:id	No	Yes	admin
	PUT /api/admin/users/:id/disallow	No	Yes	admin
	PUT /api/admin/users/:id/allow	No	Yes	admin
	PUT /api/admin/users/:id/verify-email	No	Yes	admin, magnet_employee
	PUT /api/admin/users/:id/unverify-email	No	Yes	admin, magnet_employee
	PUT /api/admin/users/:id/verify-phone	No	Yes	admin, magnet_employee
	PUT /api/admin/users/:id/unverify-phone	No	Yes	admin, magnet_employee
	GET /api/admin/wishlists	No	Yes	admin
	GET /api/admin/wishlists/:id	No	Yes	admin
	POST /api/admin/wishlists	No	Yes	admin
	PUT /api/admin/wishlists/:id	No	Yes	admin
	DELETE /api/admin/wishlists/:id	No	Yes	admin
	GET /api/admin/reviews	No	Yes	admin
	GET /api/admin/reviews/:id	No	Yes	admin
	POST /api/admin/reviews	No	Yes	admin
	PUT /api/admin/reviews/:id	No	Yes	admin
	DELETE /api/admin/reviews/:id	No	Yes	admin
	GET /api/admin/addresses	No	Yes	admin
	GET /api/admin/addresses/:id	No	Yes	admin
	POST /api/admin/addresses	No	Yes	admin
	PUT /api/admin/addresses/:id	No	Yes	admin
	DELETE /api/admin/addresses/:id	No	Yes	admin
	GET /api/admin/orders	No	Yes	admin
	GET /api/admin/orders/:id	No	Yes	admin

Module	Route/Action	Public	Auth Required	Role(s) Required
	POST /api/admin/orders	No	Yes	admin
	PUT /api/admin/orders/:id	No	Yes	admin
	DELETE /api/admin/orders/:id	No	Yes	admin
Auth	Registration/Login/OTP	Yes	No	None
	Forgot Password	No	Yes	Any authenticated user

Notes

- **Auth Required:** Requires a valid JWT token in the **Authorization** header.
- **Role(s) Required:** Requires the user to have one of the listed roles. If "(own)" is specified, the user must own the resource (e.g., their own product or order).
- **Public:** Anyone can access, no authentication required.
- **All:** All HTTP methods (GET, POST, PUT, DELETE) for that endpoint.
- **Business (if owns product in order):** Business user can access if any product in the order is owned by them (see order tracking section).
- **Enhanced Data Population:** All APIs now return complete user information instead of just IDs for related fields (owner, approvedBy, createdBy, customer, user, etc.).

Message Format

All API responses return bilingual messages in both English and Arabic for every endpoint, including all errors and successes. The system uses a centralized messages.js file to ensure consistency across all modules (auth, user, product, order, address, category, review, wishlist, etc.).

Example:

```
{
  "status": "success",
  "message": {
    "en": "User registered successfully",
    "ar": "تم تسجيل المستخدم بنجاح"
  },
  "data": { ... }
}
```

Enhanced User Data Population

All APIs now return complete user information instead of just IDs for related fields. This includes:

User Object Format

When user data is populated, it returns:

```
{
  "id": "user_id",
  "firstname": "John",
  "lastname": "Doe",
  "email": "john@example.com",
  "role": "customer"
}
```

Business User Object Format

For business users, additional company information is included:

```
{
  "id": "user_id",
  "firstname": "Business",
  "lastname": "Owner",
  "email": "business@example.com",
  "role": "business",
  "companyName": "ABC Company"
}
```

Admin User Object Format

For admin users who approved content:

```
{
  "id": "admin_id",
  "firstname": "Admin",
  "lastname": "User",
  "email": "admin@example.com",
  "role": "admin"
}
```

Populated Fields

The following fields are now populated with complete user objects instead of IDs:

- **Product Owner:** `product.owner` - Returns business user details
- **Product Approved By:** `product.approvedBy` - Returns admin/employee details
- **Category Created By:** `category.createdBy` - Returns creator details
- **Review User:** `review.user` - Returns reviewer details
- **Order Customer:** `order.customer` - Returns customer details

- **Address User:** `address.user` - Returns address owner details
- **Wishlist User:** `wishlist.user` - Returns wishlist owner details
- **Business Approved By:** `business.businessInfo.approvedBy` - Returns approver details

Example Enhanced Responses

Product Response

```
{
  "status": "success",
  "data": {
    "product": {
      "id": "product_id",
      "name": "Product Name",
      "code": "PROD001",
      "owner": {
        "id": "owner_id",
        "firstname": "Business",
        "lastname": "Owner",
        "email": "business@example.com",
        "companyName": "ABC Company"
      },
      "approvedBy": {
        "id": "admin_id",
        "firstname": "Admin",
        "lastname": "User",
        "email": "admin@example.com",
        "role": "admin"
      }
    }
  }
}
```

Review Response

```
{
  "status": "success",
  "data": {
    "review": {
      "id": "review_id",
      "rating": 5,
      "comment": "Great product!",
      "user": {
        "id": "user_id",
        "firstname": "John",
        "lastname": "Doe",
        "email": "john@example.com",
        "role": "customer"
      }
    },
  }
}
```

```
    "product": {
      "id": "product_id",
      "name": "Product Name",
      "owner": {
        "id": "owner_id",
        "firstname": "Business",
        "lastname": "Owner",
        "email": "business@example.com",
        "companyName": "ABC Company"
      }
    }
  }
}
```

Order Response

```
{
  "status": "success",
  "data": {
    "order": {
      "id": "order_id",
      "status": "pending",
      "customer": {
        "id": "customer_id",
        "firstname": "John",
        "lastname": "Doe",
        "email": "john@example.com",
        "role": "customer"
      },
      "items": [
        {
          "product": {
            "id": "product_id",
            "name": "Product Name",
            "owner": {
              "id": "owner_id",
              "firstname": "Business",
              "lastname": "Owner",
              "email": "business@example.com",
              "companyName": "ABC Company"
            }
          },
          "quantity": 2
        }
      ]
    }
  }
}
```

Verification Rules

Phone Number Verification

- **If phone number is provided:** Only the phone is verified (`isPhoneVerified = true`, `isEmailVerified = false`)
- **If no phone number is provided:** Only the email is verified (`isEmailVerified = true`, `isPhoneVerified = false`)

This applies to both customer and business registration.

Validation Rules

Email Validation

- **Format:** Must match email format: `^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$`
- **Required:** Email is required for all user registrations
- **Unique:** Email must be unique across all users

Phone Validation

- **Format:** Must match phone format: `^\+?[1-9]\d{1,14}$`
- **Optional:** Phone number is optional for customer registration
- **Unique:** If provided, phone must be unique across all users
- **Saudi Numbers:** Saudi phone numbers are automatically verified

Password Requirements

- **Minimum Length:** 8 characters
- **Complexity:** Must contain at least:
 - One uppercase letter (A-Z)
 - One lowercase letter (a-z)
 - One number (0-9)
- **Pattern:** `^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)`

Name Validation

- **First Name:** 2-50 characters, required
- **Last Name:** 2-50 characters, required
- **Trim:** Leading and trailing whitespace is automatically removed

Business Registration Validation

- **CR Number:** 1-50 characters, required
- **VAT Number:** 1-50 characters, required
- **Company Name:** 2-100 characters, required
- **Company Type:** 2-100 characters, required
- **Country:** 2-50 characters, required
- **City:** 2-50 characters, required

- **District:** 2-50 characters, required
- **Street Name:** 2-100 characters, required

Product Validation

- **Category:** Required bilingual object { en: "English Category", ar: "Arabic Category" }
- **Name:** Required bilingual object { en: "English Name", ar: "Arabic Name" }
- **Description:** Optional bilingual object { en: "English Description", ar: "Arabic Description" }
- **Unit:** Optional bilingual object { en: "English Unit", ar: "Arabic Unit" }
- **Custom Fields:** Array of objects, minimum 3, maximum 10
 - Each object must have **key** and **value** properties
 - Both key and value must be bilingual objects: { en: "English", ar: "Arabic" }
- **Code:** Optional, auto-generated if not provided
- **Images:** Optional array of strings (URLs)
- **Attachments:** Optional array of product IDs
- **Min Order:** Optional number
- **Price Per Unit:** Optional string
- **Stock:** Optional number

Address Validation

- **Address Line 1:** Required string
- **Address Line 2:** Optional string
- **City:** Required string
- **State:** Required string
- **Postal Code:** Required string
- **Country:** Required string

Category Validation

- **Name:** Required bilingual object { en: "English", ar: "Arabic" }
- **Description:** Optional bilingual object { en: "English", ar: "Arabic" }

Review Validation

- **Rating:** Required number, min: 1, max: 5
- **Comment:** Optional string

Admin User Management Validation

- **Role:** Must be one of: 'admin', 'magnet_employee', 'business', 'customer'
- **Business Info:** Required for business users
 - **CR Number:** 1-50 characters, required for business users
 - **VAT Number:** 1-50 characters, required for business users
 - **Company Name:** 2-100 characters, required for business users
 - **Company Type:** 2-100 characters, required for business users
 - **City:** 2-50 characters, required for business users
 - **District:** 2-50 characters, required for business users

- **Street Name:** 2-100 characters, required for business users
- **Disallow Reason:** Required when disallowing a user
- **Self-Protection:** Admins cannot disallow or delete their own accounts
- **Admin Protection:** Admin users cannot be disallowed by other admins

Order Validation

- **Customer:** Required user ID
- **Items:** Required array of order items
 - Each item must have **product** (product ID) and **quantity** (number)
- **Shipping Address:** Required address ID
- **Status:** Optional, defaults to 'pending', enum: 'pending', 'confirmed', 'shipped', 'delivered', 'cancelled' (English values only, backend converts to bilingual)
 - **Valid English Statuses:** ['pending', 'confirmed', 'shipped', 'delivered', 'cancelled']
 - **Valid Arabic Statuses:** ['قيد الانتظار', 'مؤكد', 'تم الشحن', 'تم التوصيل', 'ملغى']
 - **Validation:** Backend validates status using **Order.isValidStatus()** method
 - **Conversion:** Backend converts English status to bilingual using **Order.convertStatusToBilingual()** method

Auth Routes

1. Register User

- **POST** /api/auth/register
- **Description:** Register a new customer user with automatic verification based on phone number presence.
- **Body:**
 - **firstname** (string, required)
 - **lastname** (string, required)
 - **email** (string, required)
 - **phone** (string, optional)
 - **password** (string, required)
 - **country** (string, required)
 - **language** (string, optional, default: 'en')
- **Verification Logic:**
 - If **phone** is provided: **isPhoneVerified** = true, **isEmailVerified** = false
 - If **phone** is not provided: **isEmailVerified** = true, **isPhoneVerified** = false
- **Response:**
 - **201 Created:** User info + JWT token with verification status

2. Register Business

- **POST** /api/auth/business-register

- **Description:** Register a new business user (requires approval) with automatic verification based on phone number presence.
 - **Body:**
 - `firstname, lastname, email, password, crNumber, vatNumber, companyName, companyType, country, city, district, streetName, phone` (all required)
 - **Verification Logic:**
 - If `phone` is provided: `isPhoneVerified = true, isEmailVerified = false`
 - If `phone` is not provided: `isEmailVerified = true, isPhoneVerified = false`
 - **Response:**
 - **201 Created:** Business info (under review) with verification status
-

3. Send Email OTP

- **POST** `/api/auth/send-email-otp`
 - **Description:** Send an OTP to a new email (fails if email already exists).
 - **Body:**
 - `email` (string, required)
 - **Response:**
 - **200 OK:** Success message (bilingual)
-

4. Send Phone OTP

- **POST** `/api/auth/send-phone-otp`
 - **Description:** Send an OTP to a new phone (fails if phone already exists).
 - **Body:**
 - `phone` (string, required)
 - **Response:**
 - **200 OK:** Success message (bilingual)
-

5. Confirm OTP

- **POST** `/api/auth/confirm-otp`
 - **Description:** Confirm an OTP for any email or phone identifier (works for both registered and non-registered users).
 - **Body:**
 - `identifier` (string, required)
 - `otp` (string, required)
 - **Response:**
 - **200 OK:** OTP verified successfully (bilingual message)
-

6. Confirm Login OTP

- **POST** `/api/auth/confirm-login-otp`
- **Description:** Confirm an OTP for registered users and return user data with JWT token (like login API).
- **Body:**

- **identifier** (string, required)
 - **otp** (string, required)
 - **Response:**
 - **200 OK:** User info + JWT token (bilingual message)
 - **404 Not Found:** User not found (bilingual message)
-

7. Login

- **POST** `/api/auth/login`
 - **Description:** Login with email/phone and password.
 - **Body:**
 - **identifier** (email or phone, required)
 - **password** (string, required)
 - **Response:**
 - **200 OK:** User info + JWT token (bilingual message)
-

8. Login with OTP

- **POST** `/api/auth/login-with-otp`
 - **Description:** Request an OTP for login (email or phone).
 - **Body:**
 - **identifier** (email or phone, required)
 - **Response:**
 - **200 OK:** OTP sent (bilingual message)
-

9. Forgot Password

- **POST** `/api/auth/forgot-password`
 - **Description:** Change password for authenticated user.
 - **Headers:** `Authorization: Bearer <token>`
 - **Body:**
 - **newPassword** (string, required)
 - **Response:**
 - **200 OK:** Password updated (bilingual message)
-

10. Create Admin User

- **POST** `/api/auth/create-admin`
- **Description:** Create a new admin user. Only accessible by authenticated admin users.
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - **firstname** (string, required)
 - **lastname** (string, required)
 - **email** (string, required)
 - **phone** (string, optional)

- **password** (string, required)
 - **country** (string, required)
 - **language** (string, optional, default: 'en')
 - **Response:**
 - **201 Created:** Admin user info (bilingual message)
 - **403 Forbidden:** Insufficient permissions (bilingual message)
 - **400 Bad Request:** Email/phone already registered (bilingual message)
-

11. Create Magnet Employee User

- **POST** `/api/auth/create-magnet-employee`
 - **Description:** Create a new magnet employee user. Only accessible by authenticated admin users.
 - **Headers:** **Authorization:** **Bearer** `<token>`
 - **Body:**
 - **firstname** (string, required)
 - **lastname** (string, required)
 - **email** (string, required)
 - **phone** (string, optional)
 - **password** (string, required)
 - **country** (string, required)
 - **language** (string, optional, default: 'en')
 - **Response:**
 - **201 Created:** Magnet employee user info (bilingual message)
 - **403 Forbidden:** Insufficient permissions (bilingual message)
 - **400 Bad Request:** Email/phone already registered (bilingual message)
-

Product Routes

Language Support

Products support bilingual content (Arabic and English). You can:

- **Get products in specific language:** Add `?lang=en` or `?lang=ar` to the URL
- **Get products in user's preferred language:** The system uses the user's language preference
- **Get full bilingual data:** Use `?lang=both` to get both languages

1. Get Products

- **GET** `/api/products`
- **GET** `/api/products?lang=en` (English only)
- **GET** `/api/products?lang=ar` (Arabic only)
- **GET** `/api/products?lang=both` (Both languages)
- **Description:** Get all approved products (requires authentication). Admin/magnet_employee can see all products.
- **Headers:** **Authorization:** **Bearer** `<token>`
- **Response:**
 - **200 OK:** List of products

- **Product Object:**

- **code** (string, auto-generated if not provided, e.g. "A001")
 - **category** (object, required, bilingual: { en: "English Category", ar: "Arabic Category" })
 - **name** (object, required, bilingual: { en: "English Name", ar: "Arabic Name" })
 - **images** (array of strings)
 - **description** (object, optional, bilingual: { en: "English Description", ar: "Arabic Description" })
 - **attachments** (array of product IDs, references to other products)
 - **unit** (object, optional, bilingual: { en: "English Unit", ar: "Arabic Unit" })
 - **minOrder** (number)
 - **pricePerUnit** (string)
 - **stock** (number)
 - **customFields** (array of objects, min 3, max 10, each: { key: { en: "English Key", ar: "Arabic Key" }, value: { en: "English Value", ar: "Arabic Value" } })
 - **status** (string: 'pending', 'approved', 'declined')
 - **owner** (object, populated with business user details)
 - **approvedBy** (object, populated with admin/employee details who approved)
 - **createdAt** (date)
-

1a. Get Product by ID

- **GET** /api/products/:id
 - **GET** /api/products/:id?lang=en (English only)
 - **GET** /api/products/:id?lang=ar (Arabic only)
 - **GET** /api/products/:id?lang=both (Both languages)
 - **Description:** Get a single product by its ID. Requires authentication. Admin, business, and magnet_employee can access any product (including pending/declined).
 - **Headers:** Authorization: Bearer <token>
 - **Response:**
 - **200 OK:** Product object (see above)
 - **404 Not Found:** If product does not exist
 - **403 Forbidden:** If trying to access a non-approved product without proper role
-

2. Add Product (Business)

- **POST** /api/products/addProductsByBusiness
- **Description:** Business user adds a new product (pending approval). Product code is auto-generated if not provided.
- **Headers:** Authorization: Bearer <token>
- **Body:**
 - **category** (object, required, bilingual: { en: "English Category", ar: "Arabic Category" })
 - **name** (object, required, bilingual: { en: "English Name", ar: "Arabic Name" })
 - **images** (array of strings, optional)
 - **attachments** (array of product IDs, references to other products, optional)

- **description** (object, optional, bilingual: { en: "English Description", ar: "Arabic Description" })
 - **unit** (object, optional, bilingual: { en: "English Unit", ar: "Arabic Unit" })
 - **minOrder, pricePerUnit, stock** (all optional)
 - **customFields** (array of objects, min 3, max 10, each: { key: { en: "English Key", ar: "Arabic Key" }, value: { en: "English Value", ar: "Arabic Value" } }, required)
 - **Response:**
 - **201 Created:** Product info (pending approval) with bilingual message
-

3. Add Product (Magnet Employee)

- **POST** /api/products/addProductsByMagnet_employee
 - **Description:** Magnet employee adds a new product (approved immediately). Product code is auto-generated if not provided.
 - **Headers:** Authorization: Bearer <token>
 - **Body:**
 - **category** (object, required, bilingual: { en: "English Category", ar: "Arabic Category" })
 - **name** (object, required, bilingual: { en: "English Name", ar: "Arabic Name" })
 - **images** (array of strings, optional)
 - **attachments** (array of product IDs, references to other products, optional)
 - **description** (object, optional, bilingual: { en: "English Description", ar: "Arabic Description" })
 - **unit** (object, optional, bilingual: { en: "English Unit", ar: "Arabic Unit" })
 - **minOrder, pricePerUnit, stock** (all optional)
 - **customFields** (array of objects, min 3, max 10, each: { key: { en: "English Key", ar: "Arabic Key" }, value: { en: "English Value", ar: "Arabic Value" } }, required)
 - **owner** (user id, required)
 - **Response:**
 - **201 Created:** Product info (approved) with bilingual message
-

4. Update Product

- **PUT** /api/products/:id
 - **Description:** Business user updates their own product (pending approval). Admin/magnet_employee can update and approve/decline.
 - **Headers:** Authorization: Bearer <token>
 - **Body:**
 - Any product field (see above)
 - **status** (optional, only admin/magnet_employee can set to 'approved' or 'declined')
 - **Response:**
 - **200 OK:** Updated product info with bilingual message
-

5. Delete Product

- **DELETE** `/api/products/:id`
 - **Description:** Business user deletes their own product, or admin/employee deletes any product.
 - **Headers:** `Authorization: Bearer <token>`
 - **Response:**
 - **200 OK:** Product deleted with bilingual message
-

6. Approve Product

- **PUT** `/api/products/:id/approve`
 - **Description:** Admin/magnet_employee approves a product.
 - **Headers:** `Authorization: Bearer <token>`
 - **Response:**
 - **200 OK:** Product approved with bilingual message
-

7. Decline Product

- **PUT** `/api/products/:id/decline`
 - **Description:** Admin/magnet_employee declines a product.
 - **Headers:** `Authorization: Bearer <token>`
 - **Response:**
 - **200 OK:** Product declined with bilingual message
-

Real-Time Order Tracking (WebSocket)

Overview

- The API supports real-time order status updates using WebSocket (Socket.IO).
- Clients can subscribe to updates for specific orders and receive instant notifications when the order status changes (e.g., confirmed, shipped, delivered).

How It Works

1. **Client authenticates with a JWT token when connecting to the WebSocket.**
2. **Client joins a room for a specific order using the order ID.**
3. **When the order status changes, the server emits an `orderStatusUpdate` event to all clients in that room.**

WebSocket Connection (Socket.IO)

- **URL:** `ws://<your-server>:5000` (or `wss://` for HTTPS)
- **Library:** [socket.io-client](#)

Client Example (JavaScript/React):

```
import { io } from 'socket.io-client';
const socket = io('http://localhost:5000', {
```



```
    auth: { token: '<JWT_TOKEN>' }
  });

  // Join the order room
  socket.emit('joinOrderRoom', '<ORDER_ID>');

  // Listen for updates
  socket.on('orderStatusUpdate', (data) => {
    // data: { orderId, status, statusLog, updatedAt }
    console.log('Order update:', data);
  });
```

Order Room Access Rules

- **Admin & magnet_employee:** Can track any order.
- **Business:** Can track orders that include products they own.
- **Customer:** Can track only their own orders.
- Unauthorized attempts to join order rooms will be ignored.

Server-Side Security

- The server authenticates each socket connection using the JWT token.
- The server enforces the above access rules for joining order rooms.

Order Status Update Event

- **Event:** `orderStatusUpdate`
- **Payload:**

```
{
  "orderId": "...",
  "status": "shipped",
  "statusLog": [
    { "status": "pending", "timestamp": "..." },
    { "status": "confirmed", "timestamp": "..." },
    { "status": "shipped", "timestamp": "..." }
  ],
  "updatedAt": "2024-07-10T12:00:00.000Z"
}
```

Security Notes

- Clients must provide a valid JWT token when connecting.
- The server will only allow joining order rooms for orders the user is authorized to track (see access rules above).
- Unauthorized attempts to join rooms will be ignored.

Additional Utility Features

Email and SMS Utilities

The API includes comprehensive email and SMS functionality for user verification and notifications:

Email Features

- **Email OTP Generation:** Automatic generation of 6-digit verification codes
- **Email Templates:** Pre-formatted HTML email templates for various notifications
- **Business Notifications:** Automatic email notifications for business registration status changes
- **Verification Emails:** Email verification for user registration

SMS Features

- **SMS OTP Generation:** Automatic generation of 6-digit SMS verification codes
- **Saudi Number Support:** Special handling for Saudi phone numbers (+966)
- **SMS Templates:** Pre-formatted SMS messages for various notifications
- **Phone Verification:** SMS verification for user registration

Product Code Generation

The API includes an automatic product code generation system:

Features

- **Auto-Generation:** If no product code is provided, the system automatically generates a unique code
- **Format:** Codes follow the pattern "A001", "A002", etc.
- **Uniqueness:** Each generated code is guaranteed to be unique
- **Custom Codes:** Users can provide their own custom codes if desired

User Model Features

The user model includes several advanced features:

Favorites System

- **Add to Favorites:** Users can add products to their favorites list
- **Remove from Favorites:** Users can remove products from their favorites
- **View Favorites:** Users can view their complete favorites list

Cart System

- **Add to Cart:** Users can add products to their shopping cart
- **Cart Management:** Users can update quantities and remove items
- **Cart Persistence:** Cart data is stored with the user account

Business Approval Workflow

- **Registration Review:** Business registrations require admin/employee approval

- **Status Tracking:** Business approval status is tracked (pending, approved, rejected)
- **Notification System:** Automatic notifications for approval status changes
- **Rejection Reasons:** Admins can provide reasons for business registration rejections

Verification Status Tracking

- **Email Verification:** Track whether user's email is verified
- **Phone Verification:** Track whether user's phone is verified
- **Automatic Verification:** Saudi phone numbers are automatically verified
- **Manual Verification:** Other verification methods available

User Disallowance System

- **Account Disallowance:** Admins can disallow users from logging in and performing actions
- **Disallowance Tracking:** Track who disallowed a user, when, and the reason
- **Allowance Tracking:** Track who allowed a user and when
- **Login Prevention:** Disallowed users cannot login or perform any actions
- **Business Action Prevention:** Disallowed business users cannot add products
- **Self-Protection:** Admins cannot disallow their own accounts
- **Admin Protection:** Admin users cannot be disallowed by other admins

Bilingual Message System

The API includes a comprehensive bilingual message system:

Features

- **Centralized Messages:** All messages are stored in a centralized `messages.js` file
- **Bilingual Support:** All messages are available in both English and Arabic
- **Consistent Format:** All API responses follow the same bilingual format
- **Error Messages:** Comprehensive error messages in both languages
- **Success Messages:** Success confirmations in both languages

Message Format

```
{
  "status": "success",
  "message": {
    "en": "Operation completed successfully",
    "ar": "تم إكمال العملية بنجاح"
  },
  "data": { ... }
}
```

Authentication and Authorization

The API includes a robust authentication and authorization system:

JWT Authentication

- **Token-Based:** Uses JWT tokens for authentication
- **Expiration:** Tokens expire after 7 days
- **Refresh:** Tokens can be refreshed
- **Secure:** Uses environment variables for secret keys

Role-Based Access Control

- **Admin:** Full system access including user management
- **Magnet Employee:** Limited admin access
- **Business:** Business-specific features
- **Customer:** Customer-specific features

Admin User Management

- **User Creation:** Admins can create any type of user (customer, business, magnet_employee, admin)
- **User Management:** Complete CRUD operations on all users
- **User Statistics:** Comprehensive user statistics and analytics
- **User Disallowance:** Ability to disallow users from accessing the system
- **User Allowance:** Ability to re-allow previously disallowed users
- **Audit Trail:** Complete tracking of disallowance/allowance actions
- **Security Protections:** Self-protection and admin protection mechanisms

Middleware System

- **Auth Middleware:** Verifies JWT tokens
- **Role Middleware:** Enforces role-based access
- **Validation Middleware:** Validates request data
- **Error Handling:** Comprehensive error handling

Category Routes

Language Support

Categories support bilingual content (Arabic and English). You can:

- **Get categories in specific language:** Add `?lang=en` or `?lang=ar` to the URL
- **Get categories in user's preferred language:** The system uses the user's language preference
- **Get full bilingual data:** Use `?lang=both` to get both languages

Category Object

- `name` (object, required, bilingual: { `en`: "English Name", `ar`: "Arabic Name" })
- `description` (object, optional, bilingual: { `en`: "English Description", `ar`: "Arabic Description" })
- `createdBy` (object, populated with creator details)
- `createdAt` (date)

- **updatedAt** (date)

1. Get Categories

- **GET** /api/categories
- **GET** /api/categories?lang=en (English only)
- **GET** /api/categories?lang=ar (Arabic only)
- **GET** /api/categories?lang=both (Both languages)
- **Description:** Get all categories (public).
- **Response:**
 - **200 OK:** List of categories

2. Create Category

- **POST** /api/categories
- **Description:** Create a new category (business, admin, or magnet_employee only).
- **Headers:** **Authorization:** Bearer <token>
- **Body:**
 - **name** (object, required, bilingual: { en: "English Name", ar: "Arabic Name" })
 - **description** (object, optional, bilingual: { en: "English Description", ar: "Arabic Description" })
- **Response:**
 - **201 Created:** Category info (bilingual message)

3. Update Category

- **PUT** /api/categories/:id
- **Description:** Update a category (business, admin, or magnet_employee only).
- **Headers:** **Authorization:** Bearer <token>
- **Body:**
 - **name** (object, optional, bilingual: { en: "English Name", ar: "Arabic Name" })
 - **description** (object, optional, bilingual: { en: "English Description", ar: "Arabic Description" })
- **Response:**
 - **200 OK:** Updated category info (bilingual message)

4. Delete Category

- **DELETE** /api/categories/:id
- **Description:** Delete a category (business, admin, or magnet_employee only).
- **Headers:** **Authorization:** Bearer <token>
- **Response:**
 - **200 OK:** Category deleted (bilingual message)

Order Routes

Language Support

Orders support bilingual content (Arabic and English). You can:

- **Get orders in specific language:** Add `?lang=en` or `?lang=ar` to the URL
- **Get orders in user's preferred language:** The system uses the user's language preference
- **Get full bilingual data:** Use `?lang=both` to get both languages

Order Object

- `customer` (object, populated with customer details)
- `items` (array of objects, required)
 - Each item: `{ product: ObjectId, quantity: Number }`
- `shippingAddress` (ObjectId, reference to Address)
- `status` (object, bilingual: `{ en: "pending", ar: "قيد الانتظار" }`)
- `statusLog` (array of objects)
 - Each log: `{ status: { en: "pending", ar: "قيد الانتظار" }, timestamp: Date }`
- `createdAt` (date)
- `updatedAt` (date)

Note: Order status is stored as bilingual objects but returned as localized strings based on the `lang` parameter:

- `pending` → `{ en: "pending", ar: "قيد الانتظار" }`
- `confirmed` → `{ en: "confirmed", ar: "مؤكد" }`
- `shipped` → `{ en: "shipped", ar: "تم الشحن" }`
- `delivered` → `{ en: "delivered", ar: "تم التوصيل" }`
- `cancelled` → `{ en: "cancelled", ar: "ملغي" }`

1. Create Order

- **POST** `/api/orders`
- **Description:** Create a new order (customer only).
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - Order details (see order model)
- **Response:**
 - `201 Created`: Order info (bilingual message)

2. Get My Orders

- **GET** `/api/orders/my`
- **GET** `/api/orders/my?lang=en` (English only)
- **GET** `/api/orders/my?lang=ar` (Arabic only)
- **GET** `/api/orders/my?lang=both` (Both languages)
- **Description:** Get all orders for the authenticated customer.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - `200 OK`: List of orders (bilingual message)

3. Get Order by ID

- **GET** /api/orders/:id
- **GET** /api/orders/:id?lang=en (English only)
- **GET** /api/orders/:id?lang=ar (Arabic only)
- **GET** /api/orders/:id?lang=both (Both languages)
- **Description:** Get order by ID (admin, magnet_employee, or owner).
- **Headers:** Authorization: Bearer <token>
- **Response:**
 - 200 OK: Order info (bilingual message)

4. Get All Orders

- **GET** /api/orders
- **GET** /api/orders?lang=en (English only)
- **GET** /api/orders?lang=ar (Arabic only)
- **GET** /api/orders?lang=both (Both languages)
- **Description:** Get all orders (admin, magnet_employee only).
- **Headers:** Authorization: Bearer <token>
- **Response:**
 - 200 OK: List of orders (bilingual message)

5. Update Order Status

- **PUT** /api/orders/:id/status
- **Description:** Update order status (admin, magnet_employee only).
- **Headers:** Authorization: Bearer <token>
- **Body:**
 - status (string, required, enum: 'pending', 'confirmed', 'shipped', 'delivered', 'cancelled')
- **Response:**
 - 200 OK: Updated order info (bilingual message)

6. Get Status Options

- **GET** /api/orders/status-options
- **GET** /api/orders/status-options?lang=en (English only)
- **GET** /api/orders/status-options?lang=ar (Arabic only)
- **GET** /api/orders/status-options?lang=both (Both languages)
- **Description:** Get available order status options (public).
- **Response:**
 - 200 OK: Status options in requested language
 - **Example Response:**

```
{
  "status": "success",
  "data": {
    "statusOptions": {
      "pending": "قيد الانتظار",
      "confirmed": "مؤكد",
      "shipped": "تم الشحن",
    }
  }
}
```

```
    "delivered": "تم التوصيل",
    "cancelled": "ملغى"
  },
  "statusEnums": {
    "en": ["pending", "confirmed", "shipped", "delivered",
"cancelled"],
    "ar": ["", "تم التوصيل", "تم الشحن", "مؤكد", "قيد الانتظار", "ملغى"]
  },
  "validEnglishStatuses": ["pending", "confirmed", "shipped",
"delivered", "cancelled"]
}
}
```

7. Get Business Product Orders

- **GET** `/api/orders/business-products`
- **Description:** Get all orders containing products owned by the authenticated business user.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** List of orders containing the business user's products
 - **Note:** This endpoint returns orders that contain any product owned by the business user, with customer details for order fulfillment.

Address Routes

Language Support

Addresses no longer support bilingual content. All address fields are stored as simple strings.

Address Object

- `user` (object, populated with user details)
- `addressLine1` (string, required)
- `addressLine2` (string, optional)
- `city` (string, required)
- `state` (string, required)
- `postalCode` (string, required)
- `country` (string, required)
- `createdAt` (date)
- `updatedAt` (date)

1. Get Addresses

- **GET** `/api/addresses`
- **Description:** Get all addresses for the authenticated customer.
- **Headers:** `Authorization: Bearer <token>`

- **Response:**
 - **200 OK:** List of addresses (bilingual message)

2. Add Address

- **POST** `/api/addresses`
- **Description:** Add a new address (customer only).
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - `addressLine1` (string, required)
 - `addressLine2` (string, optional)
 - `city` (string, required)
 - `state` (string, required)
 - `postalCode` (string, required)
 - `country` (string, required)
- **Response:**
 - **201 Created:** Address info (bilingual message)

3. Update Address

- **PUT** `/api/addresses/:id`
- **Description:** Update an address (customer only).
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - Any address field (see above)
- **Response:**
 - **200 OK:** Updated address info (bilingual message)

4. Delete Address

- **DELETE** `/api/addresses/:id`
- **Description:** Delete an address (customer only).
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** Address deleted (bilingual message)

Wishlist Routes

Wishlist Object

- `user` (object, populated with wishlist owner details)
- `products` (array of objects, populated with product details including owner and approvedBy)
- `createdAt` (date)

1. Get Wishlist

- **GET** `/api/wishlist`
- **Description:** Get the authenticated customer's wishlist.

- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - `200 OK`: List of wishlist items (bilingual message)

2. Add to Wishlist

- **POST** `/api/wishlist`
- **Description:** Add a product to the authenticated customer's wishlist.
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - `productId` (string, required)
- **Response:**
 - `200 OK`: Wishlist item info (bilingual message)

3. Remove from Wishlist

- **DELETE** `/api/wishlist/:productId`
 - **Description:** Remove a product from the authenticated customer's wishlist.
 - **Headers:** `Authorization: Bearer <token>`
 - **Response:**
 - `200 OK`: Wishlist item removed (bilingual message)
-

Review Routes

Language Support

Reviews no longer support bilingual content. All review comments are stored as simple strings.

Review Object

- `product` (object, populated with product details including owner and approvedBy)
- `user` (object, populated with reviewer details)
- `rating` (number, required, min: 1, max: 5)
- `comment` (string, optional)
- `createdAt` (date)

1. Add Review

- **POST** `/api/reviews/products/:id/reviews`
- **Description:** Add a review to a product (customer only).
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - `rating` (number, required, min: 1, max: 5)
 - `comment` (string, optional)
- **Response:**
 - `201 Created`: Review info (bilingual message)

2. Get Product Reviews

- **GET** `/api/reviews/products/:id/reviews`
- **Description:** Get all reviews for a product (public).
- **Response:**
 - **200 OK:** List of reviews (bilingual message)

3. Get Business Products Reviews

- **GET** `/api/reviews/business-products-reviews`
- **Description:** Get all reviews for products owned by the authenticated business user.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** List of reviews for the business user's products
 - **Note:** This endpoint returns reviews for all products owned by the business user, with user and product details.

4. Delete Review

- **DELETE** `/api/reviews/:id`
 - **Description:** Delete a review (admin or magnet_employee only).
 - **Headers:** `Authorization: Bearer <token>`
 - **Response:**
 - **200 OK:** Review deleted (bilingual message)
-

User Routes

1. Get User Profile

- **GET** `/api/user/profile`
- **Description:** Get the authenticated user's profile.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** User profile info (bilingual message)

2. Update User Profile

- **PUT** `/api/user/profile`
- **Description:** Update the authenticated user's profile.
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - `firstname` (string, optional)
 - `lastname` (string, optional)
 - `email` (string, optional)
 - `phone` (string, optional)
 - `country` (string, optional)
 - `language` (string, optional)
- **Response:**

- **200 OK:** Updated user profile (bilingual message)

3. Get Business Requests

- **GET** `/api/user/business-requests`
- **Description:** Get all business registration requests (admin/employee only).
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** List of business requests (bilingual message)

4. Business Approval

- **POST** `/api/user/business-approval`
- **Description:** Approve or reject business registration (admin/employee only).
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - `businessId` (string, required)
 - `status` (string, required, enum: 'approved', 'rejected')
 - `reason` (string, optional, required if status is 'rejected')
- **Response:**
 - **200 OK:** Business approval status updated (bilingual message)

5. Get Business Details

- **GET** `/api/user/business/:businessId`
- **Description:** Get business details by ID (admin/employee only).
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** Business details (bilingual message)

6. Get Business Profile

- **GET** `/api/user/business-profile`
- **Description:** Get business profile (business users only).
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** Business profile info (bilingual message)

Admin Routes

Overview

Admin routes provide comprehensive user management functionality for system administrators. All admin endpoints require authentication and admin role authorization.

Key Features:

- **User Management:** Create, read, update, delete users (admin only)
- **User Status Control:** Allow/disallow users from accessing the system (admin only)

- **Verification Management:** Manually verify/unverify user email and phone numbers (admin or magnet_employee)
- **Business Approval:** Manage business user approvals and rejections
- **Statistics:** Get comprehensive user statistics for dashboard
- **Role-based Access:** Support for all user roles (customer, business, magnet_employee, admin)
- **Enhanced Data:** All APIs return complete user information with populated related fields

1. Create User

- **POST** /api/admin/users
- **Description:** Create any type of user (customer, business, magnet_employee, admin).
- **Headers:** Authorization: Bearer <token>
- **Body:**
 - **firstname** (string, required)
 - **lastname** (string, required)
 - **email** (string, required)
 - **phone** (string, optional)
 - **password** (string, required)
 - **role** (string, required, enum: 'customer', 'business', 'magnet_employee', 'admin')
 - **country** (string, required)
 - **language** (string, optional, default: 'en')
 - **businessInfo** (object, required if role is 'business')
 - **crNumber** (string, required for business)
 - **vatNumber** (string, required for business)
 - **companyName** (string, required for business)
 - **companyType** (string, required for business)
 - **city** (string, required for business)
 - **district** (string, required for business)
 - **streetName** (string, required for business)
- **Response:**
 - **201 Created:** User created successfully (bilingual message)
 - **400 Bad Request:** Validation errors (bilingual message)
 - **403 Forbidden:** Insufficient permissions (bilingual message)

2. Get All Users

- **GET** /api/admin/users
- **Description:** Get all users with pagination, filtering, and search capabilities. Automatically fixes missing **approvedBy** field for approved business users.
- **Headers:** Authorization: Bearer <token>
- **Query Parameters:**
 - **page** (number, optional, default: 1)
 - **limit** (number, optional, default: 10)
 - **role** (string, optional, filter by role)
 - **search** (string, optional, search by name, email, or phone)
 - **status** (string, optional, filter by disallow status: 'allowed', 'disallowed')
- **Response:**

- **200 OK**: List of users with pagination info (bilingual message)

3. Get User Statistics

- **GET** `/api/admin/users/stats`
- **Description**: Get comprehensive user statistics for the admin dashboard.
- **Headers**: `Authorization: Bearer <token>`
- **Response**:
 - **200 OK**: User statistics including counts by role, verification status, etc. (bilingual message)

4. Get User by ID

- **GET** `/api/admin/users/:id`
- **Description**: Get detailed information about a specific user. Automatically fixes missing `approvedBy` field for approved business users.
- **Headers**: `Authorization: Bearer <token>`
- **Response**:
 - **200 OK**: User details (bilingual message)
 - **404 Not Found**: User not found (bilingual message)

5. Update User

- **PUT** `/api/admin/users/:id`
- **Description**: Update user information (cannot update own account).
- **Headers**: `Authorization: Bearer <token>`
- **Body**:
 - Any user field (see create user for field list)
- **Response**:
 - **200 OK**: User updated successfully (bilingual message)
 - **400 Bad Request**: Validation errors (bilingual message)
 - **404 Not Found**: User not found (bilingual message)

6. Delete User

- **DELETE** `/api/admin/users/:id`
- **Description**: Permanently delete a user (cannot delete own account).
- **Headers**: `Authorization: Bearer <token>`
- **Response**:
 - **200 OK**: User deleted successfully (bilingual message)
 - **400 Bad Request**: Cannot delete own account (bilingual message)
 - **404 Not Found**: User not found (bilingual message)

7. Disallow User

- **PUT** `/api/admin/users/:id/disallow`
- **Description**: Disallow a user from logging in and performing actions.
- **Headers**: `Authorization: Bearer <token>`
- **Body**:
 - `reason` (string, required) - Reason for disallowing the user

- **Response:**
 - **200 OK:** User disallowed successfully (bilingual message)
 - **400 Bad Request:** Cannot disallow admin or own account (bilingual message)
 - **404 Not Found:** User not found (bilingual message)

8. Allow User

- **PUT** `/api/admin/users/:id/allow`
- **Description:** Allow a previously disallowed user to login and perform actions.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** User allowed successfully (bilingual message)
 - **400 Bad Request:** User is not disallowed (bilingual message)
 - **404 Not Found:** User not found (bilingual message)

9. Verify User Email

- **PUT** `/api/admin/users/:id/verify-email`
- **Description:** Manually verify a user's email address.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** Email verified successfully (bilingual message)
 - **400 Bad Request:** Email is already verified (bilingual message)
 - **404 Not Found:** User not found (bilingual message)
- **Example Response:**

```
{
  "status": "success",
  "data": {
    "user": {
      "id": "user_id",
      "firstname": "John",
      "lastname": "Doe",
      "email": "john@example.com",
      "isEmailVerified": true,
      "isPhoneVerified": false
    }
  },
  "message": {
    "en": "Email verified successfully",
    "ar": "تم التحقق من البريد الإلكتروني بنجاح"
  }
}
```

10. Unverify User Email

- **PUT** `/api/admin/users/:id/unverify-email`
- **Description:** Manually unverify a user's email address.

- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - `200 OK`: Email unverified successfully (bilingual message)
 - `400 Bad Request`: Email is not verified (bilingual message)
 - `404 Not Found`: User not found (bilingual message)
- **Example Response:**

```
{
  "status": "success",
  "data": {
    "user": {
      "id": "user_id",
      "firstname": "John",
      "lastname": "Doe",
      "email": "john@example.com",
      "isEmailVerified": false,
      "isPhoneVerified": false
    }
  },
  "message": {
    "en": "Email unverified successfully",
    "ar": "تم إلغاء التحقق من البريد الإلكتروني بنجاح"
  }
}
```

11. Verify User Phone

- **PUT** `/api/admin/users/:id/verify-phone`
- **Description:** Manually verify a user's phone number.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - `200 OK`: Phone verified successfully (bilingual message)
 - `400 Bad Request`: Phone is already verified or user has no phone (bilingual message)
 - `404 Not Found`: User not found (bilingual message)
- **Example Response:**

```
{
  "status": "success",
  "data": {
    "user": {
      "id": "user_id",
      "firstname": "John",
      "lastname": "Doe",
      "phone": "+1234567890",
      "isEmailVerified": true,
      "isPhoneVerified": true
    }
  },
}
```



```

    "message": {
      "en": "Phone verified successfully",
      "ar": "تم التحقق من الهاتف بنجاح"
    }
  }
}

```

12. Unverify User Phone

- **PUT** `/api/admin/users/:id/unverify-phone`
- **Description:** Manually unverify a user's phone number.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** Phone unverified successfully (bilingual message)
 - **400 Bad Request:** Phone is not verified (bilingual message)
 - **404 Not Found:** User not found (bilingual message)
- **Example Response:**

```

{
  "status": "success",
  "data": {
    "user": {
      "id": "user_id",
      "firstname": "John",
      "lastname": "Doe",
      "phone": "+1234567890",
      "isEmailVerified": true,
      "isPhoneVerified": false
    }
  },
  "message": {
    "en": "Phone unverified successfully",
    "ar": "تم إلغاء التحقق من الهاتف بنجاح"
  }
}

```

Verification Management Features

The admin verification management system provides comprehensive control over user verification status:

Email Verification:

- **Verify Email:** Manually mark a user's email as verified
- **Unverify Email:** Remove email verification status
- **Validation:** Prevents duplicate verification or unverification of already unverified emails

Phone Verification:

- **Verify Phone:** Manually mark a user's phone as verified
- **Unverify Phone:** Remove phone verification status

- **Validation:**
 - Prevents verification if user has no phone number
 - Prevents duplicate verification or unverification of already unverified phones

Security Features:

- **Admin or Magnet Employee:** All verification endpoints require admin or magnet_employee authentication
- **Audit Trail:** All verification changes are tracked with timestamps
- **Bilingual Support:** All responses include English and Arabic messages
- **Error Handling:** Comprehensive validation with appropriate error messages

Use Cases:

- **Manual Verification:** Admins can verify users who completed verification through other means
- **Account Recovery:** Help users regain access by re-verifying their contact information
- **Security Management:** Unverify suspicious accounts for security review
- **Compliance:** Ensure verification status meets regulatory requirements

Admin User Object

- **id** (ObjectId)
- **firstname** (string)
- **lastname** (string)
- **email** (string)
- **phone** (string, optional)
- **role** (string, enum: 'admin', 'magnet_employee', 'business', 'customer')
- **country** (string)
- **language** (string, enum: 'en', 'ar')
- **imageUrl** (string, optional)
- **isEmailVerified** (boolean)
- **isPhoneVerified** (boolean)
- **isDisallowed** (boolean)
- **disallowReason** (string, if disallowed)
- **disallowedBy** (object, populated with admin details who disallowed)
- **disallowedAt** (Date, if disallowed)
- **allowedBy** (object, populated with admin details who allowed)
- **allowedAt** (Date, if allowed)
- **businessInfo** (object, for business users)
 - **crNumber** (string)
 - **vatNumber** (string)
 - **companyName** (string)
 - **companyType** (string)
 - **city** (string)
 - **district** (string)
 - **streetName** (string)
 - **isApproved** (boolean)
 - **approvalStatus** (string, enum: 'pending', 'approved', 'rejected')

- **approvedBy** (object, populated with admin details who approved)
 - **approvedAt** (Date)
 - **rejectionReason** (string, if rejected)
 - **createdAt** (Date)
 - **updatedAt** (Date)
-

Admin Wishlist Management Routes

1. Get All Wishlists

- **GET** `/api/admin/wishlists`
- **Description:** Get all wishlists with pagination and filtering capabilities.
- **Headers:** **Authorization:** `Bearer <token>`
- **Query Parameters:**
 - **page** (number, optional, default: 1)
 - **limit** (number, optional, default: 10)
 - **userId** (string, optional, filter by user ID)
 - **productId** (string, optional, filter by product ID)
- **Response:**
 - **200 OK:** List of wishlists with pagination info (bilingual message)
 - **Example Response:**

```
{
  "status": "success",
  "data": {
    "wishlists": [
      {
        "id": "wishlist_id",
        "user": {
          "id": "user_id",
          "firstname": "John",
          "lastname": "Doe",
          "email": "john@example.com",
          "role": "customer"
        },
        "products": [
          {
            "id": "product_id",
            "name": "Product Name",
            "code": "PROD001",
            "status": "approved"
          }
        ],
        "createdAt": "2024-01-01T00:00:00.000Z"
      }
    ]
  },
  "pagination": {
    "currentPage": 1,

```

```
    "totalPages": 1,  
    "totalItems": 1,  
    "itemsPerPage": 10  
  }  
}
```

2. Get Wishlist by ID

- **GET** `/api/admin/wishlists/:id`
- **Description:** Get detailed information about a specific wishlist.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** Wishlist details (bilingual message)
 - **404 Not Found:** Wishlist not found (bilingual message)

3. Create Wishlist

- **POST** `/api/admin/wishlists`
- **Description:** Add a product to a user's wishlist (creates wishlist if it doesn't exist).
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - **userId** (string, required) - User ID
 - **productId** (string, required) - Product ID (must be approved)
- **Response:**
 - **201 Created:** Product added to wishlist successfully (bilingual message)
 - **400 Bad Request:** Validation errors (bilingual message)

4. Update Wishlist

- **PUT** `/api/admin/wishlists/:id`
- **Description:** Update wishlist information or add/remove products.
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - **userId** (string, optional) - New user ID
 - **productId** (string, optional) - Product ID to add or remove
 - **action** (string, optional, enum: 'add', 'remove') - Action to perform on product
- **Response:**
 - **200 OK:** Wishlist updated successfully (bilingual message)
 - **404 Not Found:** Wishlist not found (bilingual message)

5. Delete Wishlist

- **DELETE** `/api/admin/wishlists/:id`
- **Description:** Permanently delete a wishlist entry.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** Wishlist deleted successfully (bilingual message)
 - **404 Not Found:** Wishlist not found (bilingual message)

Admin Review Management Routes

1. Get All Reviews

- **GET** `/api/admin/reviews`
- **Description:** Get all reviews with pagination and filtering capabilities.
- **Headers:** `Authorization: Bearer <token>`
- **Query Parameters:**
 - `page` (number, optional, default: 1)
 - `limit` (number, optional, default: 10)
 - `userId` (string, optional, filter by user ID)
 - `productId` (string, optional, filter by product ID)
 - `rating` (number, optional, filter by rating)
- **Response:**
 - **200 OK:** List of reviews with pagination info (bilingual message)

2. Get Review by ID

- **GET** `/api/admin/reviews/:id`
- **Description:** Get detailed information about a specific review.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** Review details (bilingual message)
 - **404 Not Found:** Review not found (bilingual message)

3. Create Review

- **POST** `/api/admin/reviews`
- **Description:** Create a new review for any user and product.
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - `userId` (string, required) - User ID
 - `productId` (string, required) - Product ID (must be approved)
 - `rating` (number, required, min: 1, max: 5) - Rating
 - `comment` (string, optional) - Review comment
- **Response:**
 - **201 Created:** Review created successfully (bilingual message)
 - **400 Bad Request:** Validation errors (bilingual message)

4. Update Review

- **PUT** `/api/admin/reviews/:id`
- **Description:** Update review information.
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - `rating` (number, optional, min: 1, max: 5) - New rating
 - `comment` (string, optional) - New comment

- **Response:**
 - **200 OK:** Review updated successfully (bilingual message)
 - **404 Not Found:** Review not found (bilingual message)

5. Delete Review

- **DELETE** `/api/admin/reviews/:id`
 - **Description:** Permanently delete a review.
 - **Headers:** `Authorization: Bearer <token>`
 - **Response:**
 - **200 OK:** Review deleted successfully (bilingual message)
 - **404 Not Found:** Review not found (bilingual message)
-

Admin Address Management Routes

1. Get All Addresses

- **GET** `/api/admin/addresses`
- **Description:** Get all addresses with pagination and filtering capabilities.
- **Headers:** `Authorization: Bearer <token>`
- **Query Parameters:**
 - **page** (number, optional, default: 1)
 - **limit** (number, optional, default: 10)
 - **userId** (string, optional, filter by user ID)
 - **city** (string, optional, search by city)
 - **country** (string, optional, search by country)
- **Response:**
 - **200 OK:** List of addresses with pagination info (bilingual message)

2. Get Address by ID

- **GET** `/api/admin/addresses/:id`
- **Description:** Get detailed information about a specific address.
- **Headers:** `Authorization: Bearer <token>`
- **Response:**
 - **200 OK:** Address details (bilingual message)
 - **404 Not Found:** Address not found (bilingual message)

3. Create Address

- **POST** `/api/admin/addresses`
- **Description:** Create a new address for any user.
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - **userId** (string, required) - User ID
 - **addressLine1** (string, required) - Primary address line
 - **addressLine2** (string, optional) - Secondary address line
 - **city** (string, required) - City

- **state** (string, required) - State/Province
- **postalCode** (string, required) - Postal code
- **country** (string, required) - Country
- **Response:**
 - **201 Created:** Address created successfully (bilingual message)
 - **400 Bad Request:** Validation errors (bilingual message)

4. Update Address

- **PUT** `/api/admin/addresses/:id`
- **Description:** Update address information.
- **Headers:** `Authorization: Bearer <token>`
- **Body:**
 - **addressLine1** (string, optional) - Primary address line
 - **addressLine2** (string, optional) - Secondary address line
 - **city** (string, optional) - City
 - **state** (string, optional) - State/Province
 - **postalCode** (string, optional) - Postal code
 - **country** (string, optional) - Country
- **Response:**
 - **200 OK:** Address updated successfully (bilingual message)
 - **404 Not Found:** Address not found (bilingual message)

5. Delete Address

- **DELETE** `/api/admin/addresses/:id`
 - **Description:** Permanently delete an address.
 - **Headers:** `Authorization: Bearer <token>`
 - **Response:**
 - **200 OK:** Address deleted successfully (bilingual message)
 - **404 Not Found:** Address not found (bilingual message)
-

Admin Order Management Routes

1. Get All Orders

- **GET** `/api/admin/orders`
- **Description:** Get all orders with pagination and filtering capabilities.
- **Headers:** `Authorization: Bearer <token>`
- **Query Parameters:**
 - **page** (number, optional, default: 1)
 - **limit** (number, optional, default: 10)
 - **customerId** (string, optional, filter by customer ID)
 - **status** (string, optional, filter by order status)
 - **startDate** (string, optional, filter orders from date)
 - **endDate** (string, optional, filter orders to date)
- **Response:**

- **200 OK**: List of orders with pagination info (bilingual message)

2. Get Order by ID

- **GET** `/api/admin/orders/:id`
- **Description**: Get detailed information about a specific order.
- **Headers**: `Authorization: Bearer <token>`
- **Response**:
 - **200 OK**: Order details (bilingual message)
 - **404 Not Found**: Order not found (bilingual message)

3. Create Order

- **POST** `/api/admin/orders`
- **Description**: Create a new order for any customer.
- **Headers**: `Authorization: Bearer <token>`
- **Body**:
 - `customerId` (string, required) - Customer ID
 - `items` (array, required) - Array of order items
 - Each item: `{ product: string, quantity: number }`
 - `shippingAddressId` (string, required) - Shipping address ID
- **Response**:
 - **201 Created**: Order created successfully (bilingual message)
 - **400 Bad Request**: Validation errors (bilingual message)

4. Update Order

- **PUT** `/api/admin/orders/:id`
- **Description**: Update order information including status.
- **Headers**: `Authorization: Bearer <token>`
- **Body**:
 - `items` (array, optional) - New order items
 - `shippingAddressId` (string, optional) - New shipping address ID
 - `status` (string, optional) - New order status
- **Response**:
 - **200 OK**: Order updated successfully (bilingual message)
 - **404 Not Found**: Order not found (bilingual message)

5. Delete Order

- **DELETE** `/api/admin/orders/:id`
- **Description**: Permanently delete an order.
- **Headers**: `Authorization: Bearer <token>`
- **Response**:
 - **200 OK**: Order deleted successfully (bilingual message)
 - **404 Not Found**: Order not found (bilingual message)